

- PI 561918 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 378. **pedigree:** F6-derived F7 maintainer lines selected from HA 821/DDR. **other id:** GP-177. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Produced hybrids which were 3-4 days later in both flowering and maturity, and 47cm shorter than check hybrids. May produce hybrids that have significantly less upright head inclination than Hybrid 894 or Hybrid cms HA 821/RHA 274. Homozygous for resistance to North American races of verticillium wilt (*Verticillium dahliae*). Level of self fertility slightly less than HA 821. Spring Annual. Breeding Material. Seed.
- PI 561919 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 379. **pedigree:** F6-derived F7 maintainer lines selected from HA 821/DDR. **other id:** GP-178. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Produced hybrids with equivalent flowering and maturity and 51cm shorter than check hybrids. May produce hybrids that have significantly less upright head inclination than Hybrid 894 or Hybrid cms HA 821/RHA 274. Homozygous for resistance to North American races of verticillium wilt (*Verticillium dahliae*). Level of self fertility slightly less than HA 821. Spring Annual. Breeding Material. Seed.
- PI 561920 **origin:** United States. **developed:** J.F. Miller. **origin institute:** Agricultural Research Service -- USDA, Northern Crop Science Lab, P.O. Box 5677, Fargo, North Dakota 58105 United States. **cultivar:** HA 380. **pedigree:** BC3F5-derived F8 maintainer line selected from USDA 1858-7/3* HA 89. **other id:** GP-179. **group:** CSR-SUNFLOWER. **restricted:** CSR. **remarks:** Converted to cytoplasmic male sterility (PET 1 cytoplasm) by backcross method. Early maturity germplasm line. Height 97cm. Oil content 469g kg-1. Leaf number 18. Spring Annual. Breeding Material. Seed.